

## ABSTRACT

A mobile phone receiver/transmitter and radio earphone receiver/transmitter, wherein the mobile phone receiver/transmitter is built within or externally connected to the mobile phone and includes a power supply unit,  
5 an incoming call detector, a coder/decoder, a spread spectrum function module, a radio frequency circuit, a memory, a main controller and an off-hook/on-hook circuit. The radio earphone receiver/transmitter includes an earphone, a microphone, a control switch, an encoder/decoder, a spread spectrum function module, a radio frequency circuit, a memory unit and a main controller.  
10 Therefore, the radio communication is achieved by the mobile phone receiver/transmitter and the radio earphone receiver/transmitter by the spread spectrum function module.